

SINGLE SUPPLY: ULTRA LOW POWER

THESE AMPLIFIERS ARE ALSO SPECIFIED ON THE DATA SHEET AT ±15V RAILS. THEY ARE DEPICTED HERE AT THE MINIMUM RAIL AT WHICH THEY ARE SPEC'D.																							Model Designator					
						< INPUT BIAS CURRENT			<---VOLTAGE NOISE--->				<---CURRENT NOISE--->				TOTAL						Temperature					
MODEL	MIN	OPEN	COMMON	INITIAL	Eos	Ib	Ib	Ios	@	@	@	@	@	@	@	@	SUPPLY	SLEW	UNITY	INPUT	OUTPUT							
NUMBER	RAIL	LOOP	MODE	OFFSET	vs	+25C	@ Ta	+25C	.1 to	10HZ	100HZ	1KHZ	.1>10HZ	10HZ	100HZ	1KHZ	CURRENT	RATE	GAIN	SWING	SWING	0	-25	-40	-55		PRICE	
		GAIN	REJECT	Eos	Temp	MAX	MAX	MAX	10 HZ								Iq					70	85	85	125			
	VOLTS	V/uV	dB	±mV MAX	±uV/C	± nA	± nA	± nA	uV PP	<---nV/	----		pA PP	<-----pA/	----		uA	V/uSEC	MHZ	VOLTS	VOLTS						100's	
SINGLE																												
OP22 RESISTOR PROGRAMMABLE Iq																												
OP22	+3V	0.25	85	1	3	10	10	3	NS	NS	NS	NS	NS	NS	NS	NS	1>10	0.08	0.25	0>2.5					H			
OP22	+3V	0.5	95	0.5	2.5	7.5	7.5	2																	F			
OP22	+3V	1	100	0.33	2	5	5	1																	A	E		
OP32 RESISTOR PROGRAMMABLE Iq, Avmin=10																												
OP32	+3V	0.5	85	1	3	50	50	3	NS	NS	NS	NS	NS	NS	NS	NS	15>300	0.001	0.1	0>2.5					G			
OP32	+3V	0.75	95	0.5	2	35	35	2																	H			
OP-90	+5V	0.4	80	0.45	5	25	25	5	3								15	0.005	NS	0> 4V	0> 3.9				G		\$1.65	
OP-90	+5V	0.5	80	0.25	5	20	20	5																	F		\$2.25	
OP-90	+5V	0.7	90	0.15	2	15	15/20	3																	E	A	\$3.95	
OP-181	+3V	0.005	65	1.5	30	10	10	7	10			75				1	4uA	0.0025	0.095	0 >2	R to R					G		
OP-186	+3V	0.005	65	1	30	8	10	7	10			110				1	4uA	0.0025	0.095	0 >2	R to R					G		
OP-193	+2V	0.06	NS	0.15	3	10	20	4	3			65				0.05	22	0.01	0.025	0> 1V	R to R				E		\$1.49	
OP-193	+2V			0.075	2	15	15	2	3																E		\$3.55	
OP-196	+3V	0.1	60	0.3	6	30	NS	5	0.8			26				0.19	50	0.25	0.35	R to R	R to R					G	\$1.65	
OP-196	+5V	0.15	65	0.3	6	30	15	5	0.8			26				0.19	60	0.25	0.35	R to R	R to R					G	\$1.65	
AD8541	+3V	0.1	65	5		4pA		2pA				100				1	10	0.6	0.5	R to R	R to R				A			
AD8541	+5V	0.3	65	5		4pA		2pA				90				1	10	0.7	0.7	R to R	R to R				A			
DUALS																												
OP-281	+3V	0.005	65	1.5	30	10	10	7	10			75				1	8uA	0.0025	0.095	0 >2	R to R					G		
OP-290	+5V	0.1	60	0.5	NS	25	25	5									30	0.005		0> 4	0> 4				G		\$2.50	
OP-290	+5V	0.125		0.3	5	20	20																		F		\$3.40	
OP-290	+5V	0.2	60	0.2	3	15	15	3																	F	A	\$5.50	
OP-293	+2V	0.06	NS	0.15	3	20	20	4	3			65				0.05	44	0.01	0.025	0> 1V	R to R				E		\$2.45	
OP-293	+2V			0.075	2	15	15	2	3																E		\$5.40	
OP-220	+5V	0.3	65	0.75	3	30	40	3.5	NS	NS	NS	NS	NS	NS	NS	NS	135	0.05	NS	0> 3.5V	.8>4.1V				G	G	\$2.13	
OP-220		0.5	65	0.3	2	25	30	2									125				.7>4.1V				F		\$4.00	
OP-220		0.5	60	0.15	1.5	20	25	1.5									115				.8>4.1V				F	A	\$5.40	
AD8542	+3V	0.1	65	5		4pA		2pA				100				2	10	0.6	0.5	R to R	R to R				A			
AD8542	+5V	0.3	65	5		4pA		2pA				90				2	10	0.7	0.7	R to R	R to R				A			
OP-296																												
OP-296	+3V	0.1	60	0.3	6	30	NS	5	0.8			26				0.19	100	0.25	0.35	R to R	R to R					G	\$1.63	
OP-296	+5V	0.15	65	0.3	6	30	15	5	0.8			26				0.19	120	0.25	0.35	R to R	R to R					G	\$1.63	
OP-295	+3V	0.75typ	60	0.5	5	20	30	3	1.6			53				0.6	300	0.03	0.075	0>2V	R to R				G	A	\$2.20	
QUADS																												
OP-481	+3V	0.005	65	1.5	30	10	10	7	10			75				1	16uA	0.0025	0.095	0 >2	R to R					G		
OP-490	+5 to 36	0.2	60	1	9	25	25										60	0.005	0.02	0> 4	0> 4				G		\$3.30	
OP-490	or	0.25		0.75	3	20	20	5																	F		\$4.50	

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								< INPUT BIAS CURRENT		<---VOLTAGE NOISE--->				<---CURRENT NOISE--->				TOTAL										Temperature			
MODEL	MIN	OPEN	COMMON	INITIAL	Eos	Ib	Ib	Ios	@	@	@	@	@	@	@	@	SUPPLY	SLEW	UNITY	INPUT	OUTPUT	Range									
NUMBER	RAIL	LOOP	MODE	OFFSET	vs	+25C	@ Ta	+25C	.1 to	10HZ	100HZ	1KHZ	.1>10HZ	10HZ	100HZ	1KHZ	CURRENT	RATE	GAIN	SWING	SWING	0	-25	-40	-55	PRICE					
		GAIN	REJECT	Eos	Temp	MAX	MAX	MAX	10 HZ								Iq					70	85	85	125						
			CMRR																												
	VOLTS	V/uV	dB	±mV MAX	±uV/C	± nA	± nA	± nA	uV PP	<---nV/	----		pA PP	<-----pA/	----		uA	V/uSEC	MHZ	VOLTS	VOLTS					100's					
OP-490	+3 to 36	0.35	90	0.5	5	15	15/20	3	3														E		A	\$6.50					
OP-493	+2V	0.06	NS	0.15	3	20	20	4	3			65				0.05	88	0.01	0.025	0> 1V	R to R			F		\$3.30					
OP-493	+2V			0.075	2	15	15	2	3														E			\$6.50					
OP-420	+5V	NS	83	6	25	40	60	6		50	50			0.12	0.12		200	0.25	0.15	0>3.5V	.7>4.1V			HY	B	\$2.80					
OP-420		0.4	80	4	15	30	40	2.5															G	C		\$2.25					
OP-496	+3V	0.1	60	0.3	6	30	NS	5	0.8			26				0.19	200	0.25	0.35	R to R	R to R				G	\$2.50					
OP-496	+5V	0.15	65	0.3	6	30	15	5	0.8			26				0.19	240	0.25	0.35	R to R	R to R				G	\$2.50					
AD8544	+3V	0.1	65	5		4pA		2pA				100					4	10	0.6	0.5	R to R	R to R		A							
AD8544	+5V	0.3	75	5		4pA		2pA				90					4	10	0.7	0.7	R to R	R to R		A							
OP-495	+3V	0.75typ	90	0.5	5	20	30	3	1.6			53				0.6	600	0.03	0.075	0>2V	R to R			G	A	\$3.95					